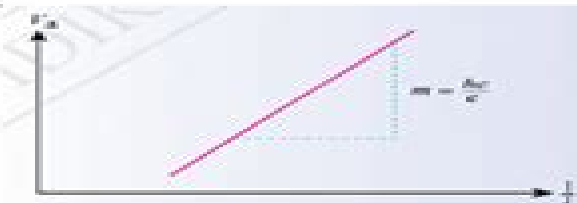
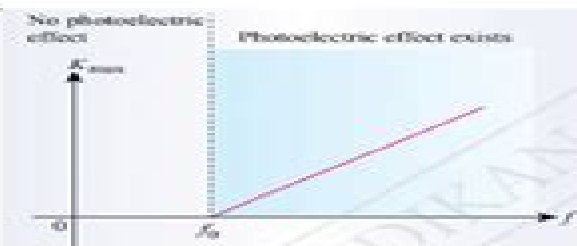


**PHYSICS F5 / CHAP 7 : QUANTUM PHYSICS**

|    |                                                                                    |                                                                                                                                                                                                                                                                                   |
|----|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Photon energy                                                                      | $E = hf$ or $E = \frac{hc}{\lambda}$<br>$E$ = photon energy<br>$h$ = Planck's constant ( $6.63 \times 10^{-34} \text{ Js}$ )<br>$f$ = frequency of light waves<br>$c$ = light speed = $3 \times 10^8 \text{ ms}^{-1}$                                                             |
| 2  | Wavelength de Broglie                                                              | $\lambda = \frac{h}{p}$<br>$\lambda$ = wave length<br>$h$ = Planck's constant<br>$p$ = momentum of particle ( $p = mv$ )                                                                                                                                                          |
| 3  | Wavelength                                                                         | $\lambda = \frac{h}{mv}$<br>$m$ = mass of particle<br>$v$ = velocity of particle                                                                                                                                                                                                  |
| 4  | Photon power                                                                       | $P = nhf$ or $P = \frac{nhc}{\lambda}$<br>$n$ = n photon emitted per second                                                                                                                                                                                                       |
| 5  |   | Graph activation voltage, $V_a$ against $\frac{1}{\lambda}$<br>Gradient, $m = \frac{hc}{e}$<br>Planck's constant, $h = \frac{me}{c}$<br>$e$ = charge of an electron ( $1.60 \times 10^{-19} \text{ C}$ )<br>$c$ = speed of light in vacuum ( $3.00 \times 10^8 \text{ ms}^{-1}$ ) |
| 6  | Einstein's photoelectric equation                                                  | Photon energy = minimum energy required to release a photoelectron + maximum kinetic energy of a photoelectron<br>$E = W + K_{\max}$<br>$hf = W + \frac{1}{2}mv^2$<br>$\frac{1}{2}mv^2 = hf - W$ or $hf = W + \frac{1}{2}mv^2$                                                    |
|    |  | $\frac{1}{2}mv_{\max}^2 = 0$<br>$0 = hf_0 - W$<br>$W = hf_0$<br>$\frac{1}{2}mv_{\max}^2 = hf - W$<br>$\frac{1}{2}mv_{\max}^2 = hf - hf_0$<br>$\frac{1}{2}mv_{\max}^2 = h(h - f_0)$                                                                                                |
| 7  | Work function                                                                      | $W = hf_0 = \frac{hc}{\lambda}$                                                                                                                                                                                                                                                   |
| 8  | 1 eV                                                                               | $1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$                                                                                                                                                                                                                                    |
| 9  | Mass of electron                                                                   | $m_e = 9.11 \times 10^{-31} \text{ kg}$                                                                                                                                                                                                                                           |
| 10 | Planck's constant                                                                  | $h = 6.63 \times 10^{-34} \text{ Js}$                                                                                                                                                                                                                                             |
| 11 | Wavelength                                                                         | $K = \frac{1}{2}mv^2 \times \frac{m}{m} \rightarrow K = \frac{(mv)^2}{2m} = \frac{p^2}{2m}$<br>Which $p = mv$                                                                                                                                                                     |

# Wilson Buff Physics Chap 7

**Richard Bailey**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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